



NU DASMARIÑAS

GESTS01X – Science, Technology and Society

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Week 3A – Intro to STS



Learning Outcomes

At the end of the lesson, the students should be able to:

1. Explain the importance of the Science, Technology, and Society triad
2. Explain concepts and ethical dilemma of Science and Technology
3. Demonstrate readiness in the study of STS



Science

knowledge about or study of the natural world based on facts learned through experiments and observation
(Merriam-Webster)

Investigations of the physical world, including us and the stuff we make

“Modern science is a discovery as well as an invention.”



A “classical” view of science and technology

- Science is a formal activity that creates knowledge by direct interaction with nature.





“Scientism”

- According to this view, when we do science, we set aside values and study only facts.
- The authority of science rests on its claim to be “value free” and hence “objective.”



Technology

- Technology concerns itself with understanding how knowledge is creatively applied to organized tasks involving people and machines that meet sustainable goals.



The need for Science, Technology and Society

“resulted from a recognition that many schools today do not really prepare students to respond critically, reflectively, and proactively to the challenges of the contemporary world, in this case S&T.”



Video: On Eugenics

<https://www.youtube.com/watch?v=5JcYEXeK0g8>





Danger of Science and Technology





The Pseudoscience of Skincare

AI and Gamification in Hiring

Predatory Journals

The HARPA SAFEHOME Proposal

Class Dojo and Classroom Surveillance

Grinch Bots

Project Nightingale

Student Tracking Software

The Corruption of Tech Ethics

Deep fakes

**2020's ten emerging
ethical dilemmas and
policy issues in S&T**





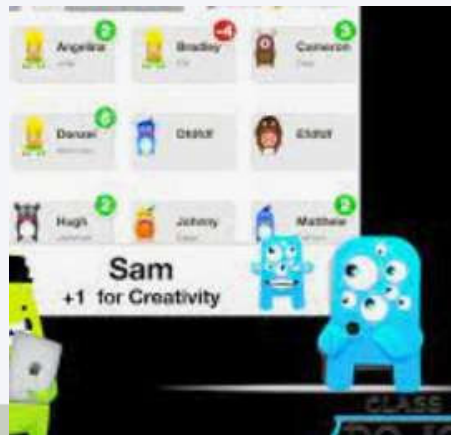
2020's ten emerging ethical dilemmas and policy issues in S&T



2020's ten emerging ethical dilemmas and policy issues in S&T

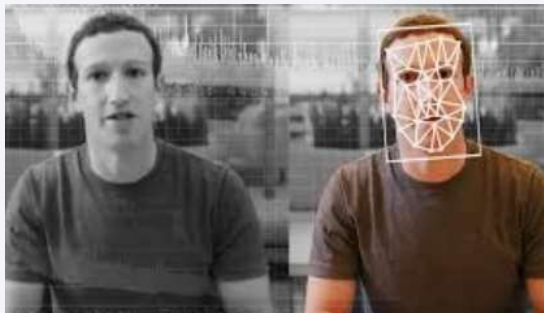


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2020's ten emerging ethical dilemmas and policy issues in S&T





Group Activity

Describe the S&T innovation assigned to your group.

What ethical dilemmas posed on your assigned topic?

In the face of this new S&T innovation, why is it important to study Science, Technology, and Society?



References

<https://www.open.edu/openlearn/science-maths-technology/engineering-and-technology/technology/what-technology>

<https://peopleandnature.wordpress.com/2015/04/13/a-radical-critique-of-science-writing-the-next-chapter/>

<https://www.laboratoryequipment.com/558920-Top-10-Ethical-Dilemmas-in-Science-for-2020/>

